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(54) LEAKAGE INSPECTION METHOD OF FILM- SEPARATION DEVICE

(57) Abstract:

PURPOSE: To enable presence or absence of leakage defect of a film to be detected readily by filling a pressurized gas into one chamber which is isolated by a film, enclosing a liquid or a gas into the other chamber and at the same time providing a pressure-detection means, and then measuring pressure of a chamber at a side where gas leaks.

CONSTITUTION: A stock solution inside a bundle 4 of a hollow yarn filtering film and upper and lower stock solution chambers 2 is delivered out of a system. Then, a valve 11 is closed and valves 13 and 14 are shielded while liquid is filled into a filtering liquid chamber 3. After that, a pressurized air is filled into a stock solution chamber 2 and the hollow yarn 4. On the other hand, a filtering liquid chamber 3 is in the

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same pressure as the pressurized air in liquid-sealing state. At this time, an air chamber 5 is shielded by a valve 12 and a normal-pressure air is filled inside. Then, the valve 12 is opened and a pressure of the liquid-filtering chamber 3 is reduced to a pressure which is lower than the pressurized air. At this time, when the filtering film is in a wet state, permeation of gas within a porous film is prevented extremely by surface tension, pressure increase at a liquid side of a sound film without any defect is slight, and the increase speed is calibrated previously. A pressure within the filtering liquid chamber 3 increases abnormally when there are defects.

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